RESULT LIST
14 results found in the Worldwide database for:
time series in the title AND **stock** in the title or abstract
(Results are sorted by date of upload in database)

1 **Computerized process for tracking tight-flow supply between supplier (s) and client comprises setting up table for each product over series of time periods starting at set time**
Inventor: CHEMINAIS DANIEL; HORNET DIDIER; (+1) **Applicant:** VALLOUREC MANNESMANN OIL & GAS (FR)
EC: G06Q10/00E **IPC:** ***G06Q10/00***; **G06Q10/00**; (IPC1-7): G06F17/60
Publication info: **FR2829850** - 2003-03-21

2 **AN ARTIFICIAL NEURAL NETWORK BASED UNIVERSAL TIME SERIES**
Inventor: LI BIN (US); LI LIANG (US); (+2) **Applicant:** WESTPORT FINANCIAL LLC (US); LI BIN (US); (+3)
EC: G06N3/04T **IPC:** ***G06N3/04***; **G06N3/00**; (IPC1-7): G06N3/02
Publication info: **WO0115079** - 2001-03-01

3 **Artificial neural network based universal time series**
Inventor: LI LIANG (US); TANG YI (US); (+2) **Applicant:** WESTPORT FINANCIAL LLC (US)
EC: G06N3/04T **IPC:** ***G06N3/04***; **G06N3/00**; (IPC1-7): G06F15/18
Publication info: **US6735580** - 2004-05-11

4 **METHOD FOR PROCESSING STOCK PRICE DATA IN TIME SERIES, SECURITIES DEALING SUPPORT METHOD, AND DEVICE FOR SAME**
Inventor: IIDA TATSUHIDE; IIDA KAYOKO **Applicant:** KENTEX KK
EC: **IPC:** (IPC1-7): G06F17/60
Publication info: **JP2001167148** - 2001-06-22

5 **Statistical sample sequence classification method for time series data e.g. stock market**
Inventor: DECO GUSTAVO DR (DE); SCHITTENKOPF CHRISTIAN (DE) **Applicant:** SIEMENS AG (DE)
EC: G06F17/18 **IPC:** ***G06F17/18***; **G06F17/18**; (IPC1-7): G01D1/16 (+2)
Publication info: **DE19643918** - 1998-02-05

6 **PREDICTION AND TRANSACTION AID DEVICE FOR TIME SERIES DATA RELATING TO MARKET TRANSACTION**
Inventor: YAMADA MASUHIRO **Applicant:** YAMADA MASUHIRO
EC: **IPC:** ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00 (+1)
Publication info: **JP7044529** - 1995-02-14

7 **TIME SERIES PREDICTION METHOD BY NEURAL NETWORK**
Inventor: MASUI HIRONARI; KAMINARI HIROYUKI **Applicant:** HITACHI LTD
EC: **IPC:** ***G06F15/18***; **G06F15/18**; (IPC1-7): G06F15/18 (+1)
Publication info: **JP6337852** - 1994-12-06

8 **TIME SERIES INVENTORY ASSIGNING SYSTEM**
Inventor: YOSHIDA FUMIHIKO **Applicant:** NEC SOFTWARE KANSAI
EC: **IPC:** (IPC1-7): G06F15/24
Publication info: **JP4289967** - 1992-10-14

9 **COLLATING METHOD FOR TIME SERIES PATTERN**
Inventor: MIZUNO HIROTAKA; KOSAKA MITSUTAKA; (+1) **Applicant:** HITACHI LTD
EC: **IPC:** ***G06F7/02***; **G06F7/02**; (IPC1-7): G06F7/02
Publication info: **JP3105522** - 1991-05-02

10 **AUTOMATIC DISTRIBUTING SYSTEM FOR TIME SERIES RESULTS**

DATA

Inventor: MIZUNO YASUHIKO; MIMORI SADAMICHI; (+2)

Applicant: HITACHI LTD

EC:

IPC: ***G06F7/22; G06F12/00; G06F13/00*** (+9)

Publication info: **JP1237743** - 1989-09-22

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
5 results found in the Worldwide database for:
time series in the title AND **market** in the title or abstract
(Results are sorted by date of upload in database)

1 **TIME SERIES DATA FORECAST METHOD AND DEVICE**
Inventor: OHIRA TORU; TAKAYASU HIDEKI; (+1) **Applicant:** SONY CORP
EC: **IPC:** ***G06F17/18; G06F19/00***; **G06F17/18** (+4)
Publication info: **JP2002298064** - 2002-10-11

2 **Statistical sample sequence classification method for time series data e.g. stock market**
Inventor: DECO GUSTAVO DR (DE); SCHITTENKOPF CHRISTIAN (DE) **Applicant:** SIEMENS AG (DE)
EC: G06F17/18 **IPC:** ***G06F17/18***; **G06F17/18**; (IPC1-7): G01D1/16 (+2)
Publication info: **DE19643918** - 1998-02-05

3 **PREDICTION AND TRANSACTION ASSISTANCE DEVICE FOR TIME-SERIES DATA REGARDING MARKET TRANSACTION**
Inventor: YAMADA MASUHIRO **Applicant:** YAMADA MASUHIRO
EC: **IPC:** ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00 (+1)
Publication info: **JP7168806** - 1995-07-04

4 **PREDICTION AND TRANSACTION AID DEVICE FOR TIME SERIES DATA RELATING TO MARKET TRANSACTION**
Inventor: YAMADA MASUHIRO **Applicant:** YAMADA MASUHIRO
EC: **IPC:** ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00 (+1)
Publication info: **JP7044529** - 1995-02-14

5 **TIME SERIES PREDICTING DEVICE**
Inventor: OBARA KAZUHIRO **Applicant:** NIPPON TELEGRAPH & TELEPHONE
EC: **IPC:** ***G06F15/18***; **G06F15/18**; (IPC1-7): G06F15/20 (+1)
Publication info: **JP6139227** - 1994-05-20

RESULT LIST
4 results found in the Worldwide database for:
time series in the title AND **securities** in the title or abstract
(Results are sorted by date of upload in database)

1 **AN ARTIFICIAL NEURAL NETWORK BASED UNIVERSAL TIME SERIES**
Inventor: LI BIN (US); LI LIANG (US); (+2)
Applicant: WESTPORT FINANCIAL LLC (US); LI BIN (US); (+3)
EC: G06N3/04T
IPC: ***G06N3/04***; **G06N3/00**; (IPC1-7): G06N3/02
Publication info: **WO0115079** - 2001-03-01

2 **Artificial neural network based universal time series**
Inventor: LI LIANG (US); TANG YI (US); (+2)
Applicant: WESTPORT FINANCIAL LLC (US)
EC: G06N3/04T
IPC: ***G06N3/04***; **G06N3/00**; (IPC1-7): G06F15/18
Publication info: **US6735580** - 2004-05-11

3 **METHOD FOR PROCESSING STOCK PRICE DATA IN TIME SERIES, SECURITIES DEALING SUPPORT METHOD, AND DEVICE FOR SAME**
Inventor: IIDA TATSUHIDE; IIDA KAYOKO
Applicant: KENTEX KK
EC:
IPC: (IPC1-7): G06F17/60
Publication info: **JP2001167148** - 2001-06-22

4 **Evaluating and representing securities data time series on computer monitor, printer etc. by allocating colors to values of percentage change values of data time series**
Inventor: EICHNER MAX (DE)
Applicant: EICHNER MAX (DE)
EC: G06Q40/00B
IPC: (IPC1-7): G06F17/60
Publication info: **DE19851750** - 2000-05-11

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
1 result found in the Worldwide database for:
time series in the title AND **trading** in the title or abstract
(Results are sorted by date of upload in database)

1 SELLING DEVICE, TRADING SYSTEM, SELLING METHOD, TRADING METHOD FOR TIME SERIES INFORMATION, AND MEDIUM OFFERING PROCESS PROGRAM

Inventor: SUGITANI KAZUNOBU **Applicant:** CANON KK

EC: **IPC:** (IPC1-7): G06F17/60

Publication info: **JP2002183556** - 2002-06-28

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
Approximately **242** results found in the Worldwide database for:
database in the title AND **structures** in the title or abstract
(Results are sorted by date of upload in database)

1 **Methods, apparatus, and data structures for annotating a database design schema and/or indexing annotations**
Inventor: MCCONNELL CHRISTOPHER CLAYTON (US) **Applicant:** MICROSOFT CORP (US)
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US6999963** - 2006-02-14

2 **Database generation systems and methods**
Inventor: NETZ AMIR (US); SANDERS PAUL J (US); (+3) **Applicant:** MICROSOFT CORP (US)
EC: **IPC:** ***G06F17/00***; **G06F17/00**
Publication info: **US2006020619** - 2006-01-26

3 **Method and apparatus for synchronizing dataset object properties with underlying database structures**
Inventor: CHRISTENSEN BARBARA A (US); HILL MICHAEL J (US); (+3) **Applicant:**
EC: **IPC:** (IPC1-7): G06F17/00
Publication info: **US2005262169** - 2005-11-24

4 **Methods, apparatus, and data structures for annotating a database design schema and/or indexing annotations**
Inventor: MCCONNELL CHRISTOPHER C (US) **Applicant:** MICROSOFT CORP (US)
EC: **IPC:** (IPC1-7): G06F7/00
Publication info: **US2005256889** - 2005-11-17

5 **EFFICIENT INDEXING OF HIERARCHICAL RELATIONAL DATABASE RECORDS**
Inventor: GAPONOFF MARK A (US) **Applicant:** IDX SYSTEMS CORP (US); GAPONOFF MARK A (US)
EC: **IPC:** ***G06F7/00***; **G06F7/00**
Publication info: **WO2005077123** - 2005-08-25

6 **Data referencing within a database graph**
Inventor: LORD ROBERT W (US); SUVER CHRISTOPHER A (US) **Applicant:** MICROSOFT CORP (US)
EC: G06F17/30G3; G06F17/30T **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06T11/20 (+1)
Publication info: **US2005151738** - 2005-07-14

7 **System and method for updating, enhancing, or refining a geographic database using feedback**
Inventor: CHERVENY KEVIN (US); CRANE AARON (US); (+3) **Applicant:**
EC: G01C21/26; G08G1/0969 **IPC:** ***G01C21/26; G08G1/0969***; **G01C21/26** (+2)
Publication info: **US2005149259** - 2005-07-07

8 **INTEGRATED DATABASE MANAGEMENT OF PROTEIN AND LIGAND STRUCTURES**
Inventor: POTTS STEVEN J (US); SZALMA SANDOR (US); (+3) **Applicant:** ACCELRYS SOFTWARE INC (US); POTTS STEVEN J (US); (+4)
EC: **IPC:** ***G06F17/30; G06F19/00***; **G06F17/30** (+2)
Publication info: **WO2005055114** - 2005-06-16

9 **Integrated database management of protein and ligand structures**
Inventor: POTTS STEVEN J (US); SZALMA SANDOR (US); (+3) **Applicant:**
EC: **IPC:** ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00

Publication info: **US2005182746** - 2005-08-18

10 Techniques for partial rewrite of XPath queries in a relational database

Inventor: WARNER JAMES W (US); LIU ZHEN HUA (US); (+5) Applicant:

EC: IPC: ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00

Publication info: **US2005065949** - 2005-03-24

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
3 results found in the Worldwide database for:
time series in the title AND **databases** in the title or abstract
(Results are sorted by date of upload in database)

1 **Modeling sequence and time series data in predictive analytics**
Inventor: KIM PYUNGCHUL (US); MACLENNAN C J (US); **Applicant:** MICROSOFT CORP (US) (+1)
EC: **IPC:** ***G06F7/00***; **G06F7/00**
Publication info: **US2006010142** - 2006-01-12

2 **Method and system for computing categories and prediction of categories utilizing time-series classification data**
Inventor: RIETMAN EDWARD A (US) **Applicant:**
EC: **IPC:** ***G06F15/18***; **G06F15/18**; (IPC1-7): G06F15/18
Publication info: **US2005010541** - 2005-01-13

3 **A SUBSEQUENCE MATCHING METHOD USING DUALITY IN CONSTRUCTING WINDOWS IN TIME-SERIES DATABASES**
Inventor: WHANG KYU-YOUNG; MOON YANG-SAE **Applicant:** KOREA INST SCIENCE TECHNOLOGY (KR)
EC: **IPC:** ***G06F1/00; G06F17/30***; **G06F** (+3)
Publication info: **WO0146771** - 2001-06-28

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
6 results found in the Worldwide database for:
time series in the title AND **financial** in the title or abstract
(Results are sorted by date of upload in database)

1 **Method and system for computing categories and prediction of categories utilizing time-series classification data**
Inventor: RIETMAN EDWARD A (US) **Applicant:**
EC: **IPC:** ***G06F15/18***; **G06F15/18**; (IPC1-7): G06F15/18
Publication info: **US2005010541** - 2005-01-13

2 **SELLING DEVICE, TRADING SYSTEM, SELLING METHOD, TRADING METHOD FOR TIME SERIES INFORMATION, AND MEDIUM OFFERING PROCESS PROGRAM**
Inventor: SUGITANI KAZUNOBU **Applicant:** CANON KK
EC: **IPC:** (IPC1-7): G06F17/60
Publication info: **JP2002183556** - 2002-06-28

3 **AN ARTIFICIAL NEURAL NETWORK BASED UNIVERSAL TIME SERIES**
Inventor: LI BIN (US); LI LIANG (US); (+2) **Applicant:** WESTPORT FINANCIAL LLC (US); LI BIN (US); (+3)
EC: G06N3/04T **IPC:** ***G06N3/04***; **G06N3/00**; (IPC1-7): G06N3/02
Publication info: **WO0115079** - 2001-03-01

4 **Artificial neural network based universal time series**
Inventor: LI LIANG (US); TANG YI (US); (+2) **Applicant:** WESTPORT FINANCIAL LLC (US)
EC: G06N3/04T **IPC:** ***G06N3/04***; **G06N3/00**; (IPC1-7): G06F15/18
Publication info: **US6735580** - 2004-05-11

5 **Automatic monitoring and analysis of financial index time series for generation of none gain limited transaction order signals by comparison of existing values with previous values according to two different criteria**
Inventor: SCHAEFERMEIER BIRGER (DE) **Applicant:** SCHAEFERMEIER BIRGER (DE)
EC: G06Q40/00A **IPC:** ***G06Q40/00***; **G06Q40/00**; (IPC1-7): G06F17/60
Publication info: **DE19956626** - 2000-10-05

6 **TIME SERIES RECORDING SYSTEM FOR TERMINAL OF FINANCIAL INSTITUTION**
Inventor: HINO HARUHIKO **Applicant:** NIPPON ELECTRIC CO
EC: **IPC:** ***G06F11/34; G07D9/00***; **G06F11/34** (+4)
Publication info: **JP4310141** - 1992-11-02

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
4 results found in the Worldwide database for:
time series in the title AND **trends** in the title or abstract
(Results are sorted by date of upload in database)

1 Method and apparatus for time series graph display
Inventor: GOGGIN DAVID E (US) **Applicant:**
EC: **IPC:** ***G06T11/20***; **G06T11/20**; (IPC1-7): G06T11/20
Publication info: **US2005162423** - 2005-07-28

2 System and methods for display of time-series data distribution
Inventor: MCGEE JOHN J (US); COURTEMANCHE MICHAEL B (US); (+1) **Applicant:** ALTAWORKS CORP (US)
EC: G06F11/32P; G06F17/18 **IPC:** ***G06F11/32; G06F17/18***; *G06F11/34* (+4)
Publication info: **US2003088542** - 2003-05-08

3 Method and system to identify discrete trends in time series
Inventor: BOERNER SEAN T (US) **Applicant:**
EC: G06F17/18 **IPC:** ***G06F17/18***; **G06F17/18**; (IPC1-7): G06F17/60
Publication info: **US2003009399** - 2003-01-09

4 INTEGRATED METHOD FOR CHAOTIC TIME SERIES ANALYSIS
Inventor: HIVELY LEE M; NG ESMOND G **Applicant:** LOCKHEED MARTIN ENERGY RES COR (US)
EC: **IPC:** ***A61B5/00; A61B5/04; G06F17/00*** (+4)
Publication info: **WO9849935** - 1998-11-12

Data supplied from the ***esp@cenet*** database - Worldwide

Terms used **time series databases structure mapping** Found **131,052** of **171,143**

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Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next
Best 200 shown Relevance scale

1 Locally adaptive dimensionality reduction for indexing large time series databases
Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani
June 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 2
Publisher: ACM Press
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discrete ...

Keywords: Dimensionality reduction, indexing, time-series similarity retrieval

2 Locally adaptive dimensionality reduction for indexing large time series databases
Eamonn Keogh, Kaushik Chakrabarti, Michael Pazzani, Sharad Mehrotra
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(300.08 KB) Additional Information: full citation, abstract, references, citings, index terms

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data.. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discr ...

Keywords: content-based retrieval, dimensionality reduction, indexing

3 Sequence Mining: Efficient and robust feature extraction and pattern matching of time series by a lattice structure
Polly Wan Po Man, Man Hon Wong

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**
Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

The efficiency of searching scaling-invariant and shifting-invariant shapes in a set of massive time series data can be improved if searching is performed on an approximated sequence which involves less data but contains all the significant features. However, commonly used smoothing techniques, such as moving averages and best-fitting polylines, usually miss important peaks and troughs and deform the time series. In addition, these techniques are not robust, as they often requires users to suppl ...

4 Fast subsequence matching in time-series databases

Christos Faloutsos, M. Ranganathan, Yannis Manolopoulos
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2
Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

We present an efficient indexing method to locate 1-dimensional subsequences within a collection of sequences, such that the subsequences match a given (query) pattern within a specified tolerance. The idea is to map each data sequences into a small set of multidimensional rectangles in feature space. Then, these rectangles can be readily indexed using traditional spatial access methods, like the R*-tree [9]. In more detail, we use a sliding window over the data sequence and extract its fea ...

5 Modeling the storage architectures of commercial database systems

D. S. Batory
December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4
Publisher: ACM Press

Full text available: pdf(4.46 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

6 Searching in high-dimensional spaces: Index structures for improving the performance of multimedia databases

Christian Böhm, Stefan Berchtold, Daniel A. Keim
September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3
Publisher: ACM Press

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval of similar multimedia objects such as images, text, and videos. However, in contrast to searching data in a relational database, a content-based retrieval requires the search of similar objects as a basic functionality of the database system ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases,

similarity search

7 A new approach to protein structure and function analysis using semi-structured databases

William M. Shui, Raymond K. Wong, Stephen C. Graham, Lawrence K. Lee, W. Bret Church
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 CRPITS '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(144.54 KB) Additional Information: full citation, abstract, references, citings, index terms

The development of high-throughput genome sequencing and protein structure determination techniques have provided researchers with a wealth of biological data. Integrated analysis of such data is difficult due to the disparate nature of the repositories used to store this biological data and of the software used for its analysis. This paper presents a framework based upon the use of semi-structured database management systems that would provide an integrated interface for the collection, storage ...

8 Industry/government track papers: Visually mining and monitoring massive time series

Jessica Lin, Eamonn Keogh, Stefano Lonardi, Jeffrey P. Lankford, Donna M. Nystrom
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
Publisher: ACM Press
Full text available: pdf(923.29 KB) Additional Information: full citation, abstract, references, index terms

Moments before the launch of every space vehicle, engineering discipline specialists must make a critical *go/no-go* decision. The cost of a false positive, allowing a launch in spite of a fault, or a false negative, stopping a potentially successful launch, can be measured in the tens of millions of dollars, not including the cost in morale and other more intangible detriments. The Aerospace Corporation is responsible for providing engineering assessments critical to the *go/no-go* de ...

Keywords: anomaly detection, motif discovery, pattern discovery, time series, visualization

9 The time index+: an incremental access structure for temporal databases

Vram Kouramajian, Ibrahim Kamel, Ramez Elmasri, Syed Waheed
November 1994 **Proceedings of the third international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(872.15 KB) Additional Information: full citation, references, citings, index terms

10 A subsequence matching algorithm supporting moving average transform of arbitrary order in time-series databases using index interpolation

Woong-Kee Loh, Sang-Wook Kim
January 2001 **Proceedings of the 12th Australasian conference on Database technologies ADC '01**
Publisher: IEEE Computer Society
Full text available: pdf(783.60 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

In this paper, we propose a subsequence matching algorithm that supports moving average transform of arbitrary order in time-series databases. The existing subsequence matching algorithm by Faloutsos et al. would require an index for each moving average order, which causes serious storage and CPU time overhead. In this paper, we solve the problem using index interpolation. The proposed algorithm can use only a few indexes for pre-selected moving average orders k and performs subsequence matching ...

Keywords: index interpolation, moving average transform, subsequence matching, time-series databases

11 A comparison of DFT and DWT based similarity search in time-series databases

Yi-Leh Wu, Divyakant Agrawal, Amr El Abbadi
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(268.08 KB) Additional Information: full citation, references, citings, index terms

Keywords: fourier transform, smoothing, time-series analysis, time-series database, time-series matching, wavelet transform

12 Time series similarity measures (tutorial PM-2)

Dimitrios Gunopulos, Gautam Das
August 2000 **Tutorial notes of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: pdf(1.42 MB) Additional Information: full citation, references, citings, index terms

13 A data model and data structures for moving objects databases

Luca Forlizzi, Ralf Hartmut Güting, Enrico Nardelli, Markus Schneider
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

We consider spatio-temporal databases supporting spatial objects with continuously changing position and extent, termed *moving objects databases*. We formally define a data model for such databases that includes complex evolving spatial structures such as line networks or multi-component regions with holes. The data model is given as a collection of data types and operations which can be plugged as attribute types into any DBMS data model (e.g. relational, or object-oriented) to obtain ...

14 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of

this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

15 Index interpolation: an approach to subsequence matching supporting normalization transform in time-series databases

Woong-Kee Loh, Sang-Wook Kim, Kyu-Young Whang

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(245.67 KB) Additional Information: full citation, references, citings, index terms

16 Research sessions: potpourri: Mining database structure; or, how to build a data quality browser

Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, citings, index terms

Data mining research typically assumes that the data to be analyzed has been identified, gathered, cleaned, and processed into a convenient form. While data mining tools greatly enhance the ability of the analyst to make data-driven discoveries, most of the time spent in performing an analysis is spent in data identification, gathering, cleaning and processing the data. Similarly, schema mapping tools have been developed to help automate the task of using legacy or federated data sources for a n ...

17 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

18 Data streams I: A symbolic representation of time series, with implications for streaming algorithms

Jessica Lin, Eamonn Keogh, Stefano Lonardi, Bill Chiu

June 2003 **Proceedings of the 8th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery**

Publisher: ACM Press

Full text available: pdf(455.55 KB) Additional Information: full citation, abstract, references, citings

The parallel explosions of interest in streaming data, and data mining of time series have had surprisingly little intersection. This is in spite of the fact that time series data are

typically streaming data. The main reason for this apparent paradox is the fact that the vast majority of work on streaming data explicitly assumes that the data is discrete, whereas the vast majority of time series data is real valued.Many researchers have also considered transforming real valued time series into ...

Keywords: data mining, data streams, discretize, symbolic, time series

19 TransformGen: automating the maintenance of structure-oriented environments

David Garlan, Charles W. Krueger, Barbara Staudt Lerner

May 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(3.10 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A serious problem for programs that use persistent data is that information created and maintained by the program becomes invalid if the persistent types used in the program are modified in a new release. Unfortunately, there has been little systematic treatment of the problem; current approaches are manual, ad hoc, and time consuming both for programmers and users. In this article we present a new approach. Focusing on the special case of managing abstract syntax trees in structure-oriente ...

Keywords: schema evolution, structure-oriented environments, type evolution

20 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

Terms used
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1 An interval-based approach to exhaustive and incremental interprocedural data-flow analysis
Michael Burke
July 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 12 Issue 3
Publisher: ACM Press
Full text available: pdf(4.43 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We reformulate interval analysis so that it can he applied to any monotone data-flow problem, including the nonfast problems of flow-insensitive interprocedural analysis. We then develop an incremental interval analysis technique that can be applied to the same class of problems. When applied to flow-insensitive interprocedural data-flow problems, the resulting algorithms are simple, practical, and efficient. With a single update, the incremental algorithm can accommodate any sequence of pr ...

2 Research sessions: potpourri: Mining database structure; or, how to build a data quality browser
Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press
Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, citings, index terms

Data mining research typically assumes that the data to be analyzed has been identified, gathered, cleaned, and processed into a convenient form. While data mining tools greatly enhance the ability of the analyst to make data-driven discoveries, most of the time spent in performing an analysis is spent in data identification, gathering, cleaning and processing the data. Similarly, schema mapping tools have been developed to help automate the task of using legacy or federated data sources for a n ...

3 External memory algorithms and data structures: dealing with **massive data**
Jeffrey Scott Vitter
June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2
Publisher: ACM Press
Full text available: pdf(828.46 KB) Additional Information: full citation, abstract, references, citings, index

terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

4 Multidimensional access methods

Volker Gaede, Oliver Günther
June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2
Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index terms

Search operations in databases require special support at the physical level. This is true for conventional databases as well as spatial databases, where typical search operations include the point query (find all objects that contain a given search point) and the region query (find all objects that overlap a given search region). More than ten years of spatial database research have resulted in a great variety of multidimensional access methods to support ...

Keywords: data structures, multidimensional access methods

5 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2
Publisher: ACM Press

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

6 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

7 Temporal statement modifiers

Michael H. Böhlen, Christian S. Jensen, Richard Thomas Snodgrass
December 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 4
Publisher: ACM Press

Full text available: pdf(317.23 KB) Additional Information: full citation, abstract, references, citings, index terms

A wide range of database applications manage time-varying data. Many temporal query languages have been proposed, each one the result of many carefully made yet subtly interacting design decisions. In this article we advocate a different approach to articulating a set of requirements, or desiderata, that directly imply the syntactic structure and core semantics of a temporal extension of an (arbitrary) nontemporal query language. These desiderata facilitate transitioning applications from a ...

Keywords: ATSQL, statement modifiers, temporal databases

8 A provably efficient computational model for approximate spatiotemporal retrieval

Delis Vasilis, Makris Christos, Sioutas Spiros
November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**
Publisher: ACM Press

Full text available: pdf(149.97 KB) Additional Information: full citation, references, index terms

9 Hierarchical representations of collections of small rectangles

Hanan Samet
September 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 4
Publisher: ACM Press

Full text available: pdf(3.68 MB) Additional Information: full citation, abstract, references, citings, index terms

A tutorial survey is presented of hierarchical data structures for representing collections of small rectangles. Rectangles are often used as an approximation of shapes for which they serve as the minimum rectilinear enclosing object. They arise in applications in cartography as well as very large-scale integration (VLSI) design rule checking. The different data structures are discussed in terms of how they support the execution of queries involving proximity relations. The focus is on inte ...

10 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press

Full text available: pdf(17.07 MB) Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods,

define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

11 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.65 MB) Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

12 Broadcast protocols to support efficient retrieval from databases by mobile users

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(638.48 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important probllem. Such protocols are employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

13 Mobile computing and applications (MCA): Indexing continuously changing data with mean-variance tree

Yuni Xia, Sunil Prabhakar, Shan Lei, Reynold Cheng, Rahul Shah

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: pdf(221.02 KB) Additional Information: full citation, abstract, references, index terms

Constantly evolving data arise in various mobile applications such as location-based services and sensor networks. The problem of indexing the data for efficient query processing is of increasing importance. Due to the constant changing nature of the data, traditional indexes suffer from a high update overhead which leads to poor performance. In this paper, we propose a novel index structure, the MVTree, which is built based on the mean and variance of the data instead of the actual data values ...

Keywords: data streaming, indexing, query and update processing

14

Face recognition: A literature survey
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

15 Seeing, hearing, and touching: putting it all together
Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.64 MB) Additional Information: full citation

16 LH*$_{RS}$---a highly-available scalable distributed data structure
Witold Litwin, Rim Moussa, Thomas Schwarz
September 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(774.32 KB) Additional Information: full citation, abstract, references, index terms

LH*RS is a high-availability scalable distributed data structure (SDDS). An LH*RS file is hash partitioned over the distributed RAM of a multicomputer, for example, a network of PCs, and supports the unavailability of any *k* ≥ 1 of its server nodes. The value of *k* transparently grows with the file to offset the reliability decline. Only the number of the storage nodes potentially limits the file growth. The high-availability management uses a novel ...

Keywords: P2P, Scalable distributed data structure, grid computing, high-availability, linear hashing, physical database design

17 Visualizing geospatial data
Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(13.99 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

18 Goal-oriented buffer management revisited

Kurt P. Brown, Michael J. Carey, Miron Livny

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we revisit the problem of achieving multi-class workload response time goals by automatically adjusting the buffer memory allocations of each workload class. We discuss the virtues and limitations of previous work with respect to a set of criteria we lay out for judging the success of any goal-oriented resource allocation algorithm. We then introduce the concept of *hit rate concavity* and develop a new goal-oriented buffer allocation algorithm, called *Class Fencing,* th ...

19 Research sessions: security and privacy: Order preserving encryption for numeric data

Rakesh Agrawal, Jerry Kiernan, Ramakrishnan Srikant, Yirong Xu

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(188.60 KB) Additional Information: full citation, abstract, references

Encryption is a well established technology for protecting sensitive data. However, once encrypted, data can no longer be easily queried aside from exact matches. We present an order-preserving encryption scheme for numeric data that allows any comparison operation to be directly applied on encrypted data. Query results produced are sound (no false hits) and complete (no false drops). Our scheme handles updates gracefully and new values can be added without requiring changes in the encryption of ...

20 Terrain database interoperability issues in training with distributed interactive simulation

Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis

July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(443.34 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, resulting in unrealistic simulation results or negative training, and a corresponding degradation of interoperability in a DIS simulation exercise. In the DIS community, this is known as the simulator terrain database (TDB) correlation problem. ...

Keywords: distributed interactive simulation, terrain databases

Terms used **financial raw data values database strcuture** Found **84,786** of **171,143**

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1 Research sessions: stream management: Online event-driven subsequence matching over financial data streams
Huanmei Wu, Betty Salzberg, Donghui Zhang
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(753.59 KB) Additional Information: full citation, abstract, references

Subsequence similarity matching in time series databases is an important research area for many applications. This paper presents a new approximate approach for automatic online subsequence similarity matching over massive data streams. With a simultaneous on-line segmentation and pruning algorithm over the incoming stream, the resulting piecewise linear representation of the data stream features high sensitivity and accuracy. The similarity definition is based on a permutation followed by a met ...

2 An object-based programming model for shared data
Gail E. Kaiser, Brent Hailpern
April 1992 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 14 Issue 2
Publisher: ACM Press
Full text available: pdf(3.28 MB) Additional Information: full citation, abstract, references, index terms, review

The classical object model supports private data within objects and clean interfaces between objects, and by definition does not permit sharing of data among arbitrary objects. This is a problem for real-world applications, such as advanced financial services and integrated network management, where the same data logically belong to multiple objects and may be distributed over multiple nodes on the network. Rather than give up the advantages of encapsulated objects in modeling real-world en ...

Keywords: coordination language, daemons, financial applications, object-based, real-time, sharing

3 B2B e-commerce and enterprise integration: Innovative perspectives: value creation and electronic procurement
John Douglas Thomson
August 2005 **Proceedings of the 7th international conference on Electronic commerce**

ICEC '05
Publisher: ACM Press
Full text available: pdf(423.24 KB) Additional Information: full citation, abstract, references

This research addresses the very important question of the impact of web-based electronic procurement systems on corporate governance, as related to organizational purchasing and value creation. Unlike traditional marketplaces where the sale and purchase of products takes place at specific locations, the electronic marketplace is mainly designed to use the Internet infrastructure to exchange information and create virtual communities in space (Hagel and Armstrong 1997), where transactions betwee ...

Keywords: electronic, innovation, procurement, transaction costs, transparency, trust, value creation

4 An architecture and two new research problems in ARCS databases

Anindya Datta, Sharma Chakravarthy, Shiby Thomas, Igor R. Viguier
November 1996 **Proceedings of the workshop on on Databases: active and real-time**
Publisher: ACM Press
Full text available: pdf(416.19 KB) Additional Information: full citation, references, index terms

5 Special issue on prototypes of deductive database systems: The glue-nail deductive database system: design, implementation, and evaluation

Marcia A. Derr, Shinichi Morishita, Geoffrey Phipps
April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings

We describe the design and implementation of the Glue-Nail deductive database system. Nail is a purely declarative query language; Glue is a procedural language used for non-query activities. The two languages combined are sufficient to write a complete application. Nail and Glue code are both compiled into the target language IGlue. The Nail compiler uses variants of the magic sets algorithm and supports well-founded models. The Glue compiler's static optimizer uses peephole techniques and data ...

Keywords: language, performance, query optimization

6 VDE: a virtual data engine for APL

J. Merrill
August 1994 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL : the language and its applications: the language and its applications APL '94**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(839.75 KB) Additional Information: full citation, index terms, review

7 Research papers: mining biological and medical data: Subsequence matching on structured time series data

Huanmei Wu, Betty Salzberg, Gregory C Sharp, Steve B Jiang, Hiroki Shirato, David Kaeli
June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press

Full text available: pdf(930.08 KB) Additional Information: full citation, abstract, references

Subsequence matching in time series databases is a useful technique, with applications in pattern matching, prediction, and rule discovery. Internal structure within the time series data can be used to improve these tasks, and provide important insight into the problem domain. This paper introduces our research effort in using the internal structure of a time series directly in the matching process. This idea is applied to the problem domain of respiratory motion data in cancer radiation treatme ...

8 A product perspective on total data quality management

Richard Y. Wang
February 1998 **Communications of the ACM**, Volume 41 Issue 2
Publisher: ACM Press

Full text available: pdf(81.26 KB) Additional Information: full citation, references, citings, index terms, review

9 Special issue: AI in engineering

D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

10 An authorization model for temporal and derived data: securing information portals

Vijayalakshmi Atluri, Avigdor Gal
February 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 1
Publisher: ACM Press

Full text available: pdf(406.85 KB) Additional Information: full citation, abstract, references, citings, index terms

The term *information portals* refers to Web sites that serve as main providers of focused information, gathered from distributed data sources. Gathering and disseminating information through information portals introduce new security challenges. In particular, the authorization specifications, as well as the granting process, are temporal by nature. Also, more often than not, the information provided by the portal is in fact derived from more than one backend data source. Therefore, any au ...

Keywords: Access control, authorization administration, derived data, temporal data

11 DB-3 (databases): data mining: Framework and algorithms for trend analysis in massive temporal data sets

Sreenivas Gollapudi, D. Sivakumar
November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**
Publisher: ACM Press

Full text available: pdf(235.70 KB) Additional Information: full citation, abstract, references, citings, index terms

Mining massive temporal data streams for significant trends, emerging buzz, and unusually high or low activity is an important problem with several commercial

applications. In this paper, we propose a framework based on relational records and metric spaces to study such problems. Our framework provides the necessary mathematical underpinnings for this genre of problems, and leads to efficient algorithms in the stream/sort model of massive data sets (where the algorithm makes passes over the d ...

Keywords: data stream algorithms, hierarchically partitioned data, metric approximations, taxonomies, trend analysis

12 Intentional resolution of privacy protection in database systems

Naftaly Minsky
March 1976 **Communications of the ACM**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, citings

Traditionally, privacy protection in database systems is understood to be the control over what information a given user can get from a database. This paper is concerned with another, independent, dimension of privacy protection, the control over what a user is allowed to do with a piece of information supplied to him by the database. The ability to condition the supply of information on its intended use is called here "intentional resolution" of privacy protection. T ...

Keywords: intentional resolution of privacy, interaction with databases, privacy, protection in databases, protection in programming languages, security

13 Sizing DB2 UDB® servers for business intelligence workloads

Ted J. Wasserman, Patrick Martin, Haider Rizvi
October 2004 **Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(178.24 KB) Additional Information: full citation, abstract, references, citings, index terms

Computer system sizing involves estimating the amount of hardware resources needed to support a new application that has not been run in a production environment. Sizing assumes that little system environment information or performance measurements are available for the specific workload, thus a sizing expert must use extrapolations from similar workloads, industry benchmarks, rules-of-thumb, and hardware performance guidelines to determine the type and quantity of resources required. In this ...

14 Locally adaptive dimensionality reduction for indexing large time series databases

Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani
June 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 2
Publisher: ACM Press
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discrete ...

Keywords: Dimensionality reduction, indexing, time-series similarity retrieval

15 Incremental database systems: databases from the ground up

Stanley B. Zdonik
June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2
Publisher: ACM Press

Full text available: pdf(689.98 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses a new approach to database management systems that is better suited to a wide class of new applications such as scientific, hypermedia, and financial applications. These applications are characterized by their need to store large amounts of raw, unstructured data. Our premise is that, in these situations, database systems need a way to store data without imposing a schema, and a way to provide a schema incrementally as we process the data. This requires that the ...

16 RCV1: A New Benchmark Collection for Text Categorization Research

David D. Lewis, Yiming Yang, Tony G. Rose, Fan Li
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press
Full text available: pdf(628.29 KB) Additional Information: full citation, abstract, citings, index terms

Reuters Corpus Volume I (RCV1) is an archive of over 800,000 manually categorized newswire stories recently made available by Reuters, Ltd. for research purposes. Use of this data for research on text categorization requires a detailed understanding of the real world constraints under which the data was produced. Drawing on interviews with Reuters personnel and access to Reuters documentation, we describe the coding policy and quality control procedures used in producing the RCV1 data, the inten ...

17 A meta model and an infrastructure for the non-transparent replication of object databases

Werner Dreyer, Klaus R. Dittrich
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(179.36 KB) Additional Information: full citation, references, index terms

Keywords: object databases, object replication, replication meta models

18 Research perspectives for time series management systems

Werner Dreyer, Angelika Kotz Dittrich, Duri Schmidt
March 1994 **ACM SIGMOD Record**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(693.92 KB) Additional Information: full citation, abstract, citings, index terms

Empirical research based on time series is a data intensive activity that needs a data base management system (DBMS). We investigate the special properties a time series management system (TSMS) should have. We then show that currently available solutions and related research directions are not well suited to handle the existing problems. Therefore, we propose the development of a special purpose TSMS, which will offer particular modeling, retrieval, and computation capabilities. It will be suit ...

19 Queries and aggregation: Cleaning and querying noisy sensors

Eiman Elnahrawy, Badri Nath

September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available: pdf(256.08 KB) Additional Information: full citation, abstract, references, citings, index terms

Sensor networks have become an important source of data with numerous applications in monitoring various real-life phenomena as well as industrial applications and traffic control. Unfortunately, sensor data is subject to several sources of errors such as noise from external sources, hardware noise, inaccuracies and imprecision, and various environmental effects. Such errors may seriously impact the answer to any query posed to the sensors. In particular, they may yield imprecise or even incorre ...

Keywords: bayesian theory, noisy sensors, query evaluation, statistics, uncertainty, wireless sensor networks

20 Data mining techniques for optimizing inventories for electronic commerce

Anjali Dhond, Amar Gupta, Sanjeev Vadhavkar

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: pdf(238.69 KB) Additional Information: full citation, references, index terms

Keywords: data massaging, inventory optimization, temporal data mining

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Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L167	L166 and (adjust$3 near5 value$1)	2
☐	L166	L165 and time$series	24
☐	L165	(financial near5 analysis) and (time near5 interval$1)	376
☐	L164	(link$3 near5 database$1) and (financial near5 data) and (adjust$3 near5 interval$1) and @py<=2001	1
☐	L163	l162 and (multiple near5 database$1)	7
☐	L162	(adjust$3 near5 data) same (time near5 interval$1)	937
☐	L161	(adjust$3 near5 data) same (time near5 interval$1) and time$series and (financial near5 data)	1
☐	L160	L159 and (track$3 near5 financial)	5
☐	L159	L155 and (multiple near5 database$1)	31
☐	L158	L157 and (multiple near5 database$1)	0
☐	L157	L156 and (adjust$3 near5 data)	9
☐	L156	L155 and (adjust$3 near5 interval$1)	19
☐	L155	(time$series) near5 data	2340
☐	L154	(securities near5 data) and (adjust$3 near5 inverval$1)	0
☐	L153	(securities near5 data) and (adjust$3 near5 inverval$1) and (time$series)	0
☐	L152	l148 and (adjust$3 near5 interval$1) and (stock near5 price$1)	1
☐	L151	L150 and interval$1	3
☐	L150	L149 and adjust$3	5
☐	L149	L148 and (financial near5 data)	10
☐	L148	(time$series) and database$1 and @py<=2001	179
☐	L147	6065014 .uref.	1
☐	L146	l142 and (time$series)	11
☐	L145	L144 and mapp$3	7
☐	L144	L142 and (source near5 table) and (target near5 table)	27
☐	L143	L142 and (source near5 database) and (target near5 database)	58
☐	L142	(first near5 database) and (second near5 database) and @py<=2001	3375
☐	L141	L140 and mapp$3	6
☐	L140	(time$series) and (second near5 database) and @py<=2000	13
		(adjust$3 near5 time) and (adjust$3 near5 data) and (adjust$3 near5 interval$1)	

☐	L139	and (second near5 database) and @py<=2000	0
☐	L138	(adjust$3 near5 time) and (adjust$3 near5 data) and (adjust$3 near5 interval$1) and (second near5 database) and @py<=2001	1
☐	L137	L136 and (adjust$3 near5 interval$1)	2
☐	L136	L135 and (time near5 interval$1)	113
☐	L135	L134 and (second near5 database)	411
☐	L134	(stor$3) same (raw near5 data) and (first near5 database)	837
☐	L133	(stor$3) same (raw neaer5 data)	0
☐	L132	(stor$3) same (raw neaer5 data) and (first near5 database)	0
☐	L131	L130 and (market near5 data)	3
☐	L130	(database$1 and synchron$3 and time and interval$1 and adjust$3 and raw and data and mapp$3) and @py<=2001	223
☐	L129	L128 and mapp$3	5
☐	L128	L127 and (interval$1 near5 adjust$3)	38
☐	L127	L126 and (time near5 interval$1)	1714
☐	L126	(first near5 database) and (second near5 database) *DB=USPT,PGPB; PLUR=YES; OP=ADJ*	12728
☐	L125	('5544281'| '6032125'| '6125105'| '6370437'| '6381554'| '6532449')![pn] *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*	6
☐	L124	L123 and (trend$1 near5 interval$1)	3
☐	L123	l118 and (interval$1 near5 data)	74
☐	L122	L120 and (interval$1 near5 adjust$3)	1
☐	L121	L120 and (interval$1 near5 adjustment$1)	0
☐	L120	L119 and (adjust$3 near5 data)	22
☐	L119	L118 and (data near5 structures)	211
☐	L118	L117 and database$1	369
☐	L117	(stock near5 price$1) and (time near5 series)	558
☐	L116	(interval$1 near5 data) and (interval$1 near5 adjustment$1) and (time$series) and (stock near5 price$1) and database$1	0
☐	L115	(interval$1 near5 data) and (interval$1 near5 adjustment$1) and (time$series) and (raw near5 data) and database$1	4
☐	L114	5454104 .uref.	16
☐	L113	L112 and mapp$3	6
☐	L112	(first near5 database) and (second near5 database) and (raw near5 data) and (time near5 series) and @py<=2001	10
☐	L111	(securities near5 database$1) and (trad$3 near5 database$1) and (market$3 near5 database$1) and (price near5 database$1) and (time near5 series) and track$3 and (adjust$3 near5 data) and (raw near5 data) and @py<=2001	0
☐	L110	(first near5 database) and (second near5 database) and (raw near5 data) and (time near5 series) and (track$3 near5 data) and mapp$3 and (adjust$3 near5 data) and @py<=2001	1

☐	L109	(time$series) and (financial near5 (chart$1 or graph$1)) and @py<=2001	1
☐	L108	(mapp$3 near5 relational) and (relational near5 database$1) and financial and trad$3 and stock$1 and price$1 and time and interval$1 and graph$1 and @py<=2001	2
☐	L107	(stock near5 table$1) and (trad$3 near5 table$1) and (currency near5 table$1) and (time near5 interval$1) and mapp$3 and (adjust$3 near5 (value$1 or price$1)) and @py<=2001	0
☐	L106	L105 and (time near5 interval$1)	7
☐	L105	L103 and (price near5 (data structure))	13
☐	L104	L103 and (price near5 (data structurre))	0
☐	L103	stock same (data near5 structure)	453
☐	L102	stock same (data neaer5 structure)	0
☐	L101	L100 and display$3 and currency and financial	1
☐	L100	(primary near5 database) and (secondary near5 database$1) and mapp$3 and interval$1 and data and adjust$3 and @py<=2001	11
☐	L99	L98 and financial	9
☐	L98	L97 and (data near5 type$1)	32
☐	L97	L96 and (mapp$3 near5 structures)	35
☐	L96	source near5 (data structure) and (target near5 (data structure))	214
☐	L95	5220500.uref.	46
☐	L94	L93 and (raw near5 data)	9
☐	L93	L85 and @py<=2001	98
☐	L92	L90 and @py<=2001	8
☐	L91	L90 and time$series	0
☐	L90	L89 and query$3	23
☐	L89	L88 and time and range and adjust$5	23
☐	L88	L86 and mapp$3	24
☐	L87	L86 and (relational near5 database$1)	1
☐	L86	L85 and (currency near5 database$1)	26
☐	L85	(financial near5 database$1) and (securit$3 near5 database$1)	459
☐	L84	(financial near5 database$1) and (securit$3 near5 database$1) and (currency near5 database$1) and mapp$3 and stor$3 and analys$3 and trend$1 and @py<=2001	0
☐	L83	(financila near5 database$1) and (securit$3 near5 database$1) and @py<=2001	0
☐	L82	(financila near5 database$1) and (securit$3 near5 database$1) and (currency near5 database$1) and @py<=2001	0
☐	L81	(financila near5 database$1) and (securit$3 near5 database$1) and (currency near5 database$1) and mapp$3 and stor$3 and analys$3 and trend$1 and @py<=2001	0
☐	L80	L79 and (adjust$3 near5 data)	2
☐	L79	L78 and track$3 and time and series	40

☐	L78	L77 and (data near5 type$1) and (data near5 value$1) and financial	64
☐	L77	(relational near5 databases) and (data near5 structure$1) and mapp$3 and time and series and @py<=2001	478
☐	L76	L74 and time and interval$1 and range$1	0
☐	L75	L74 and (adjust$3 near5 interval$1)	0
☐	L74	L45 and @py<=2001	10
☐	L73	L72 and (data near5 interval$1) and (time near5 interval$1) and @py<=2001	4
☐	L72	(stock near5 market$1) and (relational near5 databases)	422
☐	L71	L70 and range	1
☐	L70	L69 and (time near5 interval$1)	8
☐	L69	L68 and mapp$3	16
☐	L68	L67 and first and second and database and structure$1	22
☐	L67	financial near5 schema	34
☐	L66	L65 and trend$1	3
☐	L65	L64 and value$1 and adjust$3	9
☐	L64	L62 and mapp$3	35
☐	L63	L62 and time$series	1
☐	L62	(financial near5 database$1) and (data near5 type$1) and relational and @py<=2001	73
☐	L61	(source near5 database$1) and (target near5 database$1) and (financial near5 attribute$1) and @py<=2001	0
☐	L60	(source near5 database$1) and (target near5 database$1) and (financial near5 attribute$1) and (trad$3 near5 attribute$1) and @py<=2001	0
☐	L59	5873091.uref.	7
☐	L58	5446575.uref.	23
☐	L57	(financial near10 (data structure)) and (stock near10 (data structure)) and mapp$3 and @py<=2001	1
☐	L56	(database$1 near5 structure$1) and financial and time$series and @py<=2001	7
☐	L55	database$1 near5 structure$1 and financial and time$series and @py<=2001	7
☐	L54	(stock near5 table$1) and (trader$1 near5 table$1) and time$series and relational and @py<=2001	0
☐	L53	(stock near5 database$1) and (trader$1 near5 database$1) and time$series and relational and @py<=2001	0
☐	L52	(stock near5 database$1) and (trader$1 near5 database$1) and time$series and relational and structure and @py<=2001	0
☐	L51	L50 and mapp$3 and @py<=2001	4
☐	L50	L49 and (financial near5 data)	81
☐	L49	(data near5 value$1) and (time$series)	2031
☐	L48	L47 and (time$series) and graph$1 and chart$1	12
☐	L47	L13 and stock and financial and trend	167

☐	L46	L45 and stock and financial and trend	3
☐	L45	L44 and ((second near5 database) same (data near5 structure))	42
☐	L44	(primary) same (data near5 structure)	4912
☐	L43	L42 and ((stock near5 price) same (price near5 attribute$1))	1
☐	L42	(financial) near5 (data structure)	120
☐	L41	(time$series) and (stock near5 database$1) and @py<=2001	5
☐	L40	6125105.uref.	9
☐	L39	(time$series) and (stock near5 market$1) and (trend near5 analysis) and @py<=2001	1
☐	L38	5819237.uref.	17
☐	L37	L36 and (trend near5 database$1)	0
☐	L36	(financial near5 database$1) and (financial near5 attribute$1) and @py<=2001	14
☐	L35	(financial near5 database$1) and (financial near5 attribute$1) and (quote near5 database$1) and (quote near5 attribute$1) and @py<=2001	0
☐	L34	(financial near5 database$1) and (data near5 structure) and (storck near5 database$1) and (stock near5 attribute$1) and (trend near5 database$1) and (trend near5 attribute$1) and @py<=2001	0
☐	L33	(financial near5 database$1) and (data near5 structure) and (storck near5 database$1) and (stock near5 attribute$1) and (trend near5 database$1) and (trend near5 attribute$1) and (time$series) and adjust$3 and @py<=2001	0
☐	L32	6321212.uref.	11
☐	L31	(time series data) and (data near5 structure) and (adjust$3 near5 value$1) and graph$1 and chart$1 and display$3 and financial and stock and price$1 and @py<=2001	1
☐	L30	L29 and @py<=2001	0
☐	L29	L28 and adjust$3 and raw and data$	12
☐	L28	L27 and track$3 and financial and data$	12
☐	L27	L13 and histogram$1 and (time$series)	18
☐	L26	L25 and (time$series)	1
☐	L25	5590325.uref.	18
☐	L24	(time$series) and (stock near5 database$1) and @py<=2001	5
☐	L23	(time$series) and (stock near5 database$1) and (financial near5 data) and @py<=2001	1
☐	L22	(adjust$3 near5 graph$1) and (financial near5 database$1)	1
☐	L21	(renko near5 graph$1) and (financial near5 database$1)	0
☐	L20	(renko near5 chart$1) and (financial near5 database$1)	0
☐	L19	(swing near5 chart$1) and (financial near5 database$1)	0
☐	L18	(swing near5 chart$1) and (financial near5 database$1) and (time near5 series)	0
☐	L17	(swing near5 chart$1) and (financial near5 database$1) and (time near5 series) and (adjustment$1 near5 data) and (data near5 value$1) and (data near5 range$1) and (stock near5 database$1)	0

☐	L16	(swing near5 chart$1) and (financial near5 database$1) and (time near5 series) and (adjustment$1 near5 data) and (data near5 value$1) and (data near5 range$1) and (stock near5 database$1) and @py<=2001	0
☐	L15	L14 and (interval$1 same adjustment$1)	2
☐	L14	L13 and (map$ near5 data)	1771
☐	L13	(second near5 database) and (first near5 database)	12728
☐	L12	L10 and (first near5 database)	0
☐	L11	L10 and (financial near5 data)	0
☐	L10	L1 and (databases)	31
☐	L9	L8 and (raw near5 data)	10
☐	L8	L7 and respons$	23
☐	L7	L6 and map$	24
☐	L6	L5 and stor$	38
☐	L5	L4 and (adjust$ near5 data)	49
☐	L4	(time series) same (data near5 value$1)	1959
☐	L3	L2 and (data near5 interval$1)	2
☐	L2	L1 and (raw near5 data)	11
☐	L1	(data$ and adjust$).ti.	15733

END OF SEARCH HISTORY